

Claims

[c0001] 1. A method for storing data into a SRDAM, comprising:
receiving a plurality of blocks of data;
labeling said blocks successively from 1 in step of 1;
dividing the label of each of said blocks by M and acquiring a corresponding remainder for each of said block, wherein M is the number of banks in said SRDAM and a positive integer; and
storing said blocks in said SRDAM in according to the following rule: any logical adjacent said blocks are located physically at different banks of said SRDAM.

[c0002] 2. The method of claim 1, wherein one said block has a remainder I is stored in the (I+1) bank in said SRDAM, I being a non-positive integer.

[c0003] 3. The method of claim 1, wherein a plurality of blocks in the same backs are stored in sequence.

[c0004] 4. The method of claim 2, wherein said blocks are arranged in the order of corresponding remainder.

[c0005] 5. A system for storing data into a SRDAM, comprising:
a receiver for receiving a plurality of blocks of data;
a labeler for labeling said blocks successively from 1 in

step of 1;

a divider for dividing the label of each of said blocks by M and acquiring a corresponding remainder for each of said block, wherein M is the number of banks in said SRDAM and a positive integer; and

an assigner for storing said blocks in said SRDAM in according to the following rule:

any logical adjacent said blocks are located physically at different banks of said SRDAM.

[c0006] 6. The method of claim 5, wherein one said block has a remainder I is stored in the (I+1) bank in said SRDAM, I being a non-positive integer.

[c0007] 7. The method of claim 5, wherein a plurality of blocks in the same backs are stored in sequence.

[c0008] 8. The method of claim 6, wherein said blocks are arranged in the order of corresponding remainder.

[c0009] 9. A method of operating a disc player with a SRDAM, comprising:

processing a plurality of blocks of data by performing a buffer pipe, a code pipe, and a transfer pipe in a specific order, wherein the steps of storing said blocks of data into said SRDAM comprising:

labeling said blocks successively from 1 in step of 1;

dividing the label of each of said blocks by M and acquiring a corresponding remainder for each of said block, wherein M is the number of banks in said SRDAM and a positive integer; and
storing said blocks in said SRDAM in according to the following rule: any logical adjacent said blocks are located physically at different banks of said SRDAM.

[c0010] 10. The method of claim 9, wherein said buffer pipe is performed to receive said blocks before said code pipe is performed to decode said blocks, moreover, wherein said code pipe is performed before said transfer pipe is performed to transfer decoded block to a terminal.

[c0011] 11. The method of claim 10, said terminal being chosen from the group consisting of the following: laptop, table personal computer, player, display, and combination thereof.

[c0012] 12. The method of claim 9, wherein said code pipe is performed after said transfer pipe is performed to transfer block from a terminal, moreover, wherein said buffer pipe is performed to output said blocks before said code pipe is performed to encode said blocks.

[c0013] 13. The method of claim 12, said terminal being chosen from the group consisting of the following: laptop, table

personal computer, player, display, and combination thereof.